Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

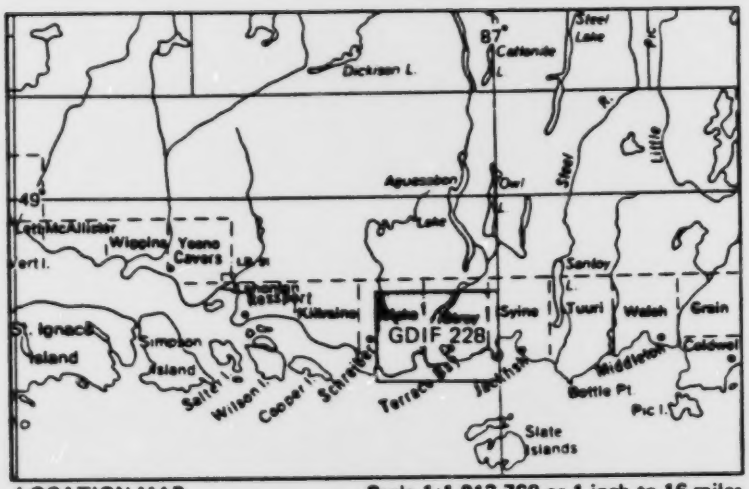
ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO
GDIF 228

HAYS LAKE AREA

DISTRICT OF THUNDER BAY

Compiled by the Staff of
the Resident Geologist's Office
Thunder Bay



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

86-0828/

NTS Number 42 D 14/SE

Mining Claim Map Number Hays Lake Area: Strey Township G-633, Syine Township G-634, Priske Township G-631

This project was funded by the Ministry of Northern Affairs (MNA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Hays Lake Area, District of Thunder Bay; Ontario Geological Survey, Geological Data Inventory Folio 228, compiled by the staff of the Resident Geologist's Office, Thunder Bay, 30 pages and 3 maps.

Original Compilation by: P. Perry

Date	Page Revised	Revised by

Date	Page Revised	Revised by

HAYS LAKE AREA

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 5
Drill Hole Summary 12
Airborne Geophysical Survey Data 14
Geochemical Survey Data 17
Miscellaneous Data 18
Newspaper Clipping File 19
ODM General Index Search 20
Selected References 26
Notes and Addenda 30

ACCOMPANYING MAPS

Property Location Map - 2
Exploration Data Map - 1
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	P. OCT./84
2	Assessment Files Research Office, Toronto	YES	P. OCT./84
3	ODM General Index; 7 volumes	YES	P. OCT./84
4	Catalogue of Airborne Geophysical Surveys (ODM)	YES	P. OCT./84
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	P. OCT./84
6	ODM Industrial Mineral Reports	NO	P. OCT./84
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	N.A.	P. OCT./84
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	YES	P. OCT./84
9	Newspaper Clippings File	YES	P. OCT./84
10	GSC Index to Publications	YES	P. OCT./84
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	P. OCT./84
12	OGS Index Maps	YES	P. OCT./84
13	Source Mineral Deposit Records (O.G.S.)	PARTIAL	P. OCT./84
14	Author - Subject Articles File	YES	P. OCT./84
15	Miscellaneous Papers: ODM & OGS	YES	P. OCT./84
16	ODM Geological Circulars: OGS Study Series	YES	P. OCT./84
17	ODM Preliminary Reports: ODM Bulletins	YES	P. OCT./84
18	ODM – OGS Open File Reports	YES	P. OCT./84
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	P. OCT./84
20	OGS Aggregate Resources Inventory Papers	N.A.	P. OCT./84
21	OGS Mineral Potential Maps	YES	P. OCT./84

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
▲ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
▲ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
▲ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
△ gn. . . . . Galena
▲ gt. . . . . Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
▲ gf. . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . Gypsum
▲ hem . . . . . Hematite
△ il . . . . . Ilmenite
△ Fe . . . . . .Iron
▲ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
▲ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
▲ mag . . . . . Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . Millerite
△ mo . . . . . Molybdenite
▲ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
△ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . Palladium
△ peat . . . . . .Peat
△ pent . . . . . Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod . . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd . . . . . .Spodumene
△ staur . . . . . Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
▲ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
▲ Zn . . . . . .Zinc
△ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps and in drill log.

HAYS LAKE AREA

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Johnston-McKenna (Cook Lake Gold Mine, Bar-Manitou, P. J. Sullivan, Mina Nova)	Au	1747	MRC 13, p. 300	OGS 1938, AR Vol. 47, Pt. 9, pp. 23-25
B	McKenna-McCann (Cook Lake Gold Mine, Bar-Manitou, Mina Nova)	Au	1747		OGS 1938, AR Vol. 47, Pt. 9, pp. 23-25
C	Otisse (Hays Lake)	Au	1751		OGS 1938, AR Vol. 47, Pt. 9, pp. 25-26
D	Hays Lake (Jedder, Derraugh)	Au, Cu, Pb	2224		OGS 1938, AR Vol. 47, Pt. 9, pp. 22-23
E	Singleton - Gray	Au	2226		OGS 1938, AR Vol. 47, Pt. 9, p. 26
F	Schreiber Pyramid (Kenecho Gold Mine)	Au, Cu, Zn	1750		OGS 1938, AR Vol. 47, Pt. 9, p. 204
G	Gold Range Occurrence (Ackee)	Au, Ag	2223	MRC 13, p. 287	OGS 1938, AR Vol. 47, Pt. 9, p. 22
H	Harkness-Hays Mine (past producer)	Au, Ag, Mo	1748		OGS 1938, AR Vol. 47, Pt. 9, p. 23
I	Downey (Mining Location R 638)	py, po		MRC 5, p. 56	
J	Pitkanen Occurrence	Cu, Mo			OGS, Carter-East map, P-2417

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
K	McKenzie Occurrence (Mining Location R 660)	Cu, Mo		MRC 7, p. 75	ODM 1921, AR Vol. 30, Pt. 4, p. 23
L	Little Bruin (Little Bear)	Au, Cu, Zn, po, py			OGS 1938, AR Vol. 47, Pt. 9, p. 37
M	Gale Occurrence (TB 3870, Fenning, Western Ontario Mine)	Au, Cu, Ag			OGS 1923, AR Vol. 32, Pt. 6, p. 21
N	Blanchford Occurrence	Cu, Mo		MRC 7, p. 75	ODM 1921, AR Vol. 30, Pt. 4, p. 23

GDIF FORM NO. 1

HAYS LAKE AREA

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Acheron Resources Ltd. (Gracey, K. A.) F.N.: 2.6450, 2.6126	83	83						83	83										
2	Acker, Walter F.N.: 2.6364	83		71 72 73	81															
3	Acker, Walter F.N.: 2.6364	83		73 75 77																
4	Acker, Walter F.N.: 2.6364	83																		
5	Archibald, F. T. F.N.: 2.3192											79	79							
6	Asarco Exploration Co. of Canada Limited F.N.: 2.4478	83																		
7	Asarco Exploration Co. of Canada Limited F.N.: 2.5974	83																		

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
8	Bar-Manitou Mines Ltd.	65[1]						67												
9	Bellevue Oil & Minerals (Noranda Exploration Co. Ltd.) F.N.: 2.6782, 2.7244	84						83	83											
10	Cleaver Claims (Sylvanite Gold Mines Ltd.)					39		39												
11	Franklin Resources Ltd. (Gracey, K. A.) F.N.: 2.6387								83	83										
12	Gale, D. E. F.N.: 2.202			70						70										
13	Gold Range Mines Ltd. (Sylvanite Gold Mines Ltd.)	36 37 39		36 37 38 39		39	39	39												
14	Gracey, K. A. (Tally Resources) F.N.: 2.6146								83	83										
15	Gracey, K. A. (Pezim Block A) F.N.: 2.6219								83	83										

GDIF FORM NO. 2

HAYS LAKE AREA

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
16	Gracey, K. A. (Pezim Block A) F.N.: 2.6219								83	83										
17	Gracey, K. A. (Pezim Block B) F.N.: 2.6183								83	83										
18	Gracey, K. A. (Bel Air Resources Ltd.) F.N.: 2.6144								83	83										
19	Greyhawk Resources Ltd. (Gracey, K. A.) F.N.: 2.6383								83	83										
20	Halonen, J. E.				50[2]															
21	Hannam Explorations Ltd. F.N.: 63.1973			65		65						65								
22	Hudson Bay Oil & Gas				77															
23	Hudson Bay Oil & Gas				77															

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	DIP NEEDLE		
24	Ironlake Exploration Co. (C. Downey - T.B. 37638) F.N.: 63.164																	48		
25	Ironlake Exploration Co. (C. Downey - T.B. 37637) F.N.: 63.164																	48		
26	Kay - Hays Mines Ltd. (Harkness - Hays Gold Mines Ltd.)	29				37 39	29 35	37 38 39												
27	Kennco Exploration (Canada) Ltd. F.N.: 2.649									71										
28	Lormac Explorations Ltd. F.N.: 2.3409, 2.3410, 2.3437	80			81 83							80	80							
29	Lormac Explorations Ltd. F.N.: 2.6000				83							83	83							
30	Megalode Resources Inc. F.N.: 2.6520											84	84							
31	Micham Exploration Inc. F.N.: 2.6189, 2.6014, 2.5200	83[3]							83[3]	83[3]		82[3]	82[3]							

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
32	New Ambrose Resources Inc. (United Continental Energy Corp., Livingstone Energy Corp.) F.N.: 2.6874								83[4]	83[4]										
33	New Ambrose Resources Inc. (United Continental Energy Corp., Livingstone Energy Corp.) F.N.: 2.6874								83[4]	83[4]										
34	Noranda Mines Ltd. (Downey Pyrrohotite Option)				56															
35	Noranda Exploration Co. Ltd. F.N.: 2.7110											84	84							
36	502095 Ontario Ltd. (Melrose Resources Ltd.) F.N.: 2.6192, 2.5765	83							83	83										
37	Otisse Gold Mines Ltd. (Sylvanite Gold Mines Ltd.)	39				38 39		39												
38	Pitkanen, R. W.			69																

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
39	Rio Blanco Resources Ltd. (Gracey, K. A.) F.N.: 2.6384, 2.7079	83	83						83	83										
40	Schiralli, R. A. (Highmark Resources Ltd.) F.N.: 2.5675								83[3]	83[3]										
41	Teck Exploration Limited F.N.: 2.5775											83	83							
42	Tong, D. S. W. (Minichiello, P.) (Zubroniewich, E.) F.N.: 2.6262								83	83										
43	United Continental Energy Corp. (Livingstone Energy Corp.) F.N.: 2.5676								83	83										
44	Univex Exploration & Development Corp. F.N.: 2.53, 2.106		70		69 70							69								
45	Vulcan Resources Ltd. F.N.: 2.7076, 2.6121	83	83						83	83										

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
46	Zenmac Metal Mines Ltd. (Pitkanen, P.)				69															
47	Noranda Exploration Co. Ltd. F.N.: 2.6065, 2.7025	84							83	83										
48	Nicohal Mines Limited	69[5]																		

NOTES:

1. Report only - no map.
2. Location of drill hole - not shown.
3. Filed 42 D 15/SW.
4. Maps cover area bigger than property outlined.
5. Filed 42 D 14/NW.

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1 a	Acker, Walter	S-190	Sept./80	330°	-45°	24.0	300.0	py, calc, cp	Au
b	" "	S-191	"	330°	-45°	40.0	300.0	py, clac, hem	Au
2 a	Halonen, J. E.	1	Sept./50	090°	-45°	-	46.0		
b	" " "	2	"	360°	-45°	-	42.0	visible Au	
3	Hudson Bay Oil & Gas	S-CL-77-1	Mar./77	225°	-47°	14.0	347.0	ch, gf, ep, gt, py, po	Au, Ag, Cu, Zn, Pb
4	" " " " "	S-BL-77-1	"	232°	-45°	110.0	221.0	gf, py, ch	Au, Ag, Cu, Zn, Pb
5 a	Lormac Explorations Ltd.	80-10	Feb./81	190°	-45°	13.0	203.0	py, po, cp, ch	
b	" " "	80-11	"	190°	-45°	6.0	152.0	ch, py, po, gf	
c	" " "	83- 4	Nov./83	180°	-45°	40.0	712.0	mo, py, po, ch, ep, cp	
6	" " "	83- 1	Oct./83	174°	-45°	63.0	hole abandoned		
7	" " "	83-1b	"	006°	-45°	20.0	433.2	py, cp, ep, hem, tour, gn, po	
8	" " "	83- 2	"	180°	-45°	5.0	285.0	ch, py, po, cp, ep, hem, mo	
9	Noranda Mines Ltd.	1	Feb./56	155°	-50°	62.0	hole abandoned		
10	" " "	2	"	325°	-50°	6.0	481.0	py, cp, mag	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
11 a	Univex Exploration & Development Corp. Ltd.	P-1	June/69	160°	-45°	4.0	300.0	py, po, cp, mo	
b	" " "	P-2	"	150°	-45°	3.0	200.0	py, po, cp, mo	
12	" " "	P-6	Mar./70	180°	-50°	207.0	335.0		
13 a	Zenmac Metal Mines Ltd. (Pitkanen, P.)	S.P.1	Jan./69	035°	-50°	8.0	126.0	po, py, ch, cp, sp	
b	" " " "	S.P.2	"	215°	-45°	10.0	132.0	py, po, sp, carb	
c	" " " "	S.P.3	Feb./69	215°	-45°	14.0	136.0	carb, ep, py	
d	" " " "	S.P.4	"	035°	-50°	6.0	227.0	ch, carb, I F py	
e	" " " "	S.P.5	"	215°	-45°	6.0	177.0	carb, py, po, cp	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Aerodat Limited Acheron Resources Ltd. F.N.: 2.6126	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
9	Questor Surveys Ltd. Bellevue Oil & Minerals	Magnetic, Electromagnetic (Input).	120 metres	North/South	250 metres
11	Aerodat Limited Franklin Resources Ltd. F.N.: 2.6387	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
12	Oja Limited Gale, D. E. F.N.: 2.202	(Galvanic) Electromagnetic.	300 feet	North/South	1/8 mile
14	Aerodat Limited Gracey, K. A. (Tally Resources)	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
15	Aerodat Limited Gracey, K. A. (Pezim Block A)	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
16	Aerodat Limited Gracey, K. A. (Pezim Block A)	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
17	Aerodat Limited Gracey, K. A. (Pezim Block B)	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres

GDIF FORM NO. 4

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
18	Aerodat Limited Gracey, K. A. (Bel Air Resources)	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
19	Aerodat Limited Greyhawk Resources Limited (Gracey, K. A.)	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
27	Lockwood Survey Corp. Ltd. Kennco Exploration (Canada) Ltd. F.N.: 2.649	Electromagnetic.	150 feet	NNE/SSW	1000 feet
31	Aerodat Limited Micham Exploration Inc. F.N.: 2.6189	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
32	Aerodat Limited New Ambrose Resources Inc. F.N.: 2.6874	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	660 feet
33	Aerodat Limited New Ambrose Resources Inc. F.N.: 2.6874	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	660 feet
36	Aerodat Limited 502095 Ontario Limited (Melrose Resources) F.N.: 2.6192	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
39	Aerodat Limited Rio Blanco Resources Limited (Gracey, K. A.) F.N.: 2.6384	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres

GDIF FORM NO. 4

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
40	Aerodat Limited Schiralli, R. A. (Highmark Resources Ltd.) F.N.: 2.5675	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	660 feet
42	Aerodat Limited Tong, D. S. W. F.N.: 2.6262	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
43	Aerodat Limited United Continental Energy Corp. F.N.: 2.5676	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	660 feet
45	Aerodat Limited Vulcan Resources Limited F.N.: 2.6121	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
47	Questor Surveys Limited Noranda Exploration Co. Ltd. F.N.: 2.6065	Electromagnetic, Magnetic.	120 metres	North/South	250 metres

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	Soil Geochemistry (B Horizon)	Ag, Au, Cu, Pb, Mo, Zn	Acheron Resources Ltd.	Resident Geologist's Assessment Files, Thunder Bay
2	Soil Geochemistry (B Horizon)	Au, Ag, Co, Mo, Zn, As	Rio Blanco Resources Ltd. (Orequest Consultants Ltd.)	Resident Geologist's Assessment Files, Thunder Bay
3	Humus Sampling	Cu, Mo	Univex Exploration & Development Corp. Ltd. (Oja Ltd.)	Resident Geologist's Assessment Files, Thunder Bay
4	Soil Geochemistry	Au, Ag, Mo, Cu, Zn, As	Vulcan Resources (Orequest Consultants Ltd.)	Resident Geologist's Assessment Files, Thunder Bay

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Thunder Bay

Asarco Exploration Company of Canada Limited

Bel Air Resources Limited

Gold Range Mines Limited

Highmark Resources Limited

Hudson Bay Oil & Gas

Megalode Resources Limited

Meirose Resources Limited

Micham Exploration Incorporated

Noranda Exploration Company Limited

Noranda Mines Limited

Teck Exploration Limited

Vulcan Resources Limited

Zenmac Metal Mines Limited

ODM GENERAL INDEX SEARCH

Words searched: Bar-Manitou Mines, Big Bruin Lake, Cleaver Claims, Downey, C. (claims), Ellis Lake, Gale, D. E. (claims), Gold Range Mines Limited, Halonen, J. E., Harkness Hays Mines, Hays Lake, Kay-Hays Mines, Little Bruin Lake, Otisse Gold Mines, Pitkanen, R. W., Priske Township, Schreiber, Strey Township, Terrace Bay

Index Volume	Listing:	Report Volume	Part	Page
1	Otisse Pyrite Mine, Cook Lake, near Schreiber			
	Notes by Fralick	15	1	177, 178
	Photos	7		48, 49
	Work at (1898)	7		80, 134
	(1900)	10		88, 89
	Otisse Gold Mining Co.			
	Capital and date of charter	7		12
	Schreiber, Thunder Bay District			
	Bridge near, cost	7		34
	Gold north of - see Big Duck Lake			
	Keewatin near	22		231
	Map of country north of, facing	24	1	12
	Mispickel near	11		106
	Nickel north of,	23	1	110
	Pyrite near	9		207
		16	1	150, 177
	Mining	7		78
	See also McKellar Mine			
	Morley Mine			
	Otisse Mine			
	Sulphur mining near	10		89
2	Ellis Lake, north of Terrace Bay, Lake Superior			
	Copper pyrites in Keewatin schist	30	4	23
	Rocks, see map 30a with 30 (4)			
	Gold Range Mines, Limited			
	Capital and date of charter	32	1	49
	Harkness-Hayes Gold Mg. Co.			
	Capital and date of charter	35	1	59
	Directors,	35	1	103
	Otisse Gold Mine, east of Schreiber			
	Description	30	4	16
	Discovery	30	4	1
	Graphite Schist	30	4	5
	Location, see map	30	4	7
	Photo	30	4	16
	Pyrrhotite	30	4	23
	Veins, narrow and rich	30	2	39

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2	Schreiber, Lake Superior			
	Electric power from coal	30	4	3
	Gold near	30	1	46
	Discovery	30	2	4
	Mining	31	10	16
		32	6	21
	Notes	30	2	39
	See also Fenning Gold Mine			
	Harkness-Hayes Gold Mine			
3	Downey, C.			
	of Garrcon Mines	46	1	135
	Gold Range Gold Mine, East of Schreiber			
	Assess	47	9	4
	Geology; mineralization	47	9	22
	Iron formation near	47	9	10
	Mill capacity	48	1	25
	Operations (1944)	44	1	96
	(1946)	46	1	138
	Gold Range Mines, Limited			
	See also Gold Range Gold Mine			
	Capital; officers; operations:			
	(1944)	44	1	96
	(1946)	46	1	138
	Incorporated	44	1	45
	Harkness-Hays Gold Mine, East of Schreiber			
	See also Jackson Gold claims			
	Location, see map 47j	47	9	with
	Mill capacity	45	1	24
		49	1	26
	Operations (1926)	36	1	107
	(1927)	37	1	106
	(1934)	44	1	99
	(1935)	45	1	112
	(1936)	46	1	143
	Production (1929)	39	1	8
	(1932)	42	1	9
	(1935)	45	1	10
	(1936)	46	1	15
	Road to	47	9	4
	Sulphides near	47	9	28
	Vein, mineralization	47	9	23

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
3	Harkness-Hays, Gold Mines, Limited			
	See also Harkness-Hays Gold Mine			
	Capital; officers; operations:			
	(1934)	44	1	99
	(1935)	45	1	112
	(1936)	46	1	143
	Incorporated	44	1	45
	Harkness-Hays Gold Mining Co. Ltd.			
	Capital; officers; operations:			
	(1926)	36	1	107
	(1927)	37	1	106
	Kay-Hays Mines, Limited			
	Incorporated	47	1	51
	Little Bruin Lake, Northeast of Schreiber			
	Gold discovery	47	9	29, 37
	(formerly Little Bear Lake)			
	Schreiber, Township 84, Thunder Bay District			
	Classes for prospectors	45	1	197
	Geology of area			
	See Big Duck - Aguasabon Area			
	Schreiber Area			
	Gold mg. near			
	See Blue Jay Long Lac Gold Mines			
	Cook Lake Gold Mines			
	Harkness Hays Gold Mines			
	McKellar-Longworth Gold Mines			
	North Shores Gold Mines			
	Schreiber Pyramid Gold Mines			
	Pyrite near	47	9	27
	Roads	47	9	4
	Rocks	47	9	7, 10, 17
	Silver near	47	9	26, 27
	Topography	47	9	3
	Schreiber Area, Thunder Bay District			
	Map, geological	47	9	with
	Northeast part, report on, by			
	M. W. Bartley	47	9	29-38

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:		Report Volume	Part	Page
3	Southeast part, report on, by G. A. Harcourt		47	9	1-28
4	Gold Range Gold Mine, East of Schreiber Production	facing	51	1	16
	Harkness-Hays Gold Mine, East of Schreiber Mill capacity		52	1	24
	Production statistics	table	59	1	6
	Schreiber Pyramid* Gold Mine, Township 84, Thunder Bay District Equipment bought by Van Houten Gold Mines		50	1	141
	Mill capacity		52	1	24
	Production statistics (*Or Kenecho)	table	59	1	6
5	Gold Range Gold Mine, East of Schreiber Production		64	1	20
	Harkness-Hays Gold Mine, East of Schreiber Production statistics		64	1	20
	Schreiber, Township 84, Thunder Bay District Classes for prospectors		62	1	83, 84
	Gold mining See Cook Lake Gold Mines Gold Range Gold Mines Harkness-Hays Gold Mines North Shores Gold Mines Schreiber Pyramid Gold Mines				
	Schreiber Pyramid Gold Mine, Township 84, Thunder Bay District Production		64	1	21
7	Halonen, J. E. Mining property, Big Duck Lake Report on (1954)		MRC 1		28
	(1957)		MRC 2		50
8	Cleaver Lake Prospect Big Duck Lake Area, Thunder Bay District Mining property, report on		MRC012		322

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Harkness-Hays Mine, Township 84, Thunder Bay District			
	Mining property, report on	MRC013		287
	Hays Lake Mines Limited			
	Schreiber Area, Thunder Bay District	MP060		71
	Priske Township, Thunder Bay District			
	See Township 84, Thunder Bay District			
	Schreiber Area, Thunder Bay District			
	Lead/zinc	AR075		77-78
		AR076		87
		AR077		73-74
		AR078		50-51
		AR079		51, 52
		AR080		134
	Magnesium/calcium	AR074		81
	Strey Township, Thunder Bay District			
	See Township 83, Thunder Bay District			
	Terrace Bay			
	Township 83, Thunder Bay District	GB002		74
9	Cleaver Showing			
	Terrace Bay Area, Thunder Bay District	MP096		45
	Gold Range Diatreme			
	Petrography			
	Priske Township, Thunder Bay District	MP082		53-54, 55
	Gold Range Gold Mines Limited			
	Terrace Bay Area, Thunder Bay District	MP096		45
	Halonen, J.			
	Township 87, Thunder Bay District	GB005		66
	Kay-Hays Mines Limited			
	Terrace Bay Area, Thunder Bay District	MP096		43

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Otisse Property			
	Terrace Bay Area, Thunder Bay District	MP096		43
	Priske Township, Thunder Bay District			
	Gold float	MDC017		125
	Pyrrhotite	MP070		313
	Schreiber			
	Township 84, Thunder Bay District	GB005		66
	Schreiber Area, Thunder Bay District			
	Chalcopyrite	MP070		106
	Pyrrhotite	MP070		312
	Report (quaternary) & map 5092, on 1979 by John F. Gartner	NOTS059		
	Sphalerite	MP070		370
	Summary of field work, 1979 by M. W. Carter	MP090		44-47
	Schreiber Pyramid Gold Mines Limited			
	Terrace Bay Area, Thunder Bay District	MP096		45
	Terrace Bay			
	Schreiber Area, Thunder Bay District	NOTS059		6, 8
	Terrace Bay Area, Thunder Bay District			
	Placer gold	MDC017		183
	Summary of field work, 1980 by M. W. Carter	MP096		42-46

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayres, L. D., Lumbers, S. B., Milne, V. G., Robeson, D. W.	1971	Ontario Geological Map, West Central Sheet.	ODMNA Map 2199	1 inch to 16 miles
Pye, E. G.	1968	Nipigon-Schreiber, Thunder Bay District, Ontario; Geological Compilation Series. Associated maps: 2137, P-357, P-358 and P-360.	ODM Map 2232	1 inch to 4 miles
		GEOLOGICAL MAPS AND REPORTS		
Bartley, M. W.	1928	The Northeastern Part of the Schreiber Area, Thunder Bay District, Ontario. Accompanied by map 47J. Associated report PR 1937-2.	ODM AR Vol. 47, Pt. 9	pp. 29-40 2 inches to 1 mile
Bell, R.	1872	Report on the Country North of Lake Superior, between the Nipigon and Michipicoten Rivers, Ontario.	GSC Report of Progress 1870-1871, Pt. 8	
Carter, M. W.	1981	Precambrian Geology of the Terrace Bay Area, East Sheet, NTS 42 D 14/NE, Thunder Bay District, Ontario.	OGS Map P-2418	1:15,840
Carter, M. W.	1981	Precambrian Geology of the Terrace Bay Area, West Sheet, NTS 42 D 14/NE, Thunder Bay District, Ontario.	OGS Map P-2417	1:15,840
GSC	1935	Lake Nipigon Sheet, Ontario.	GSC Map 308A	1 inch to 8 miles

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Hopkins, P. E.	1921	Schreiber-Duck Lake Area, Thunder Bay District, Ontario. Accompanied by map 30A.	ODM AR Vol. 30, Pt. 4	pp. 1-26 1 inch to 1 mile
Marmont, Soussan, Colvine, A. C.	1983	The Geology and Mineralization of the Terrace Bay Batholith, Mink Lake Stock, and Cairo Stack.	OGS MP 100	pp. 230-233
Marmont, Soussan	1984	The Terrace Bay Batholith and Associated Mineralization.	OGS OFR 5514	
Mason, J. K.	1981	Hays Lake Area, NTS 42 D 14/SE, Thunder Bay District, Ontario, Thunder Bay Data Series.	OGS Map P-2146	1:15,840
Tanton, T. L.	1921	Nipigon-Schreiber District, Ontario.	GSC Summary Report 1920, Pt. D	pp. 2-7
Walker, J. W.	1967	Geology of the Jackfish-Middleton Area, District of Thunder Bay, Ontario. Accompanied by maps 2107, 2112.	ODM GR 50	2 inches to 1 mile
Wilson, W. J. Collins, W. H.	1909	Geological Reconnaissance of a Portion of Algoma, and Thunder Bay Districts, Ontario, and Report on the Region Lying North of Lake Superior between the Pic and Nipigon Rivers, Ontario. Accompanied by map 964.	GSC Separate Report 980 and 1081	
		GEOPHYSICAL MAPS AND REPORTS		
ODM - GSC	1963	Aeromagnetic Map Schreiber, Ontario (42 D 14).	GSC Map 2139G	1:63,360
ODM - GSC	1965	Aeromagnetic Map Schreiber (42 D).	GSC Map 7088G	1 inch to 4 miles

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
ODM - GSC	1970	Albany River, Algoma, Cochrane, Kenora, Sudbury, Thunder Bay and Timiskaming Districts, Ontario, Aeromagnetic Compilation Map.	ODM Map P--578	1 inch to 16 miles
		GEOCHEMICAL MAPS AND REPORTS		
GSC	1981	National Geochemical Reconnaissance Coloured Compilation Map Series; Lake Superior, Ontario.	GSC - OFR 746	1:2,000,000
GSC - OGS	1978	Field Operations and Analytical and Statistical Data of Regional Lake Sediment and Water Geochemistry, Schreiber and Part of Longlac, NTS 42 D, 42 E, Thunder Bay District. Accompanied by maps P-1805 to P-1818.	GSC - OGS - OFR 5248	
		MINERAL POTENTIAL MAPS		
Springer, J. S.	1978	Ontario Mineral Potential, Schreiber Sheet, NTS 42 D, Thunder Bay District, Ontario.	OGS Map P-1520	1:250,000
Springer, J. S., et al	1982	Mineral Potential Map of Ontario, West Central Sheet, NTS 41/NW, 42/W, 42/SW, 52, 53/SE.	OGS - OFR 5326	
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Farrand, W. R.	1960	Former Shorelines in Western and Northern Lake Superior Basin.	Unpublished Ph.D. Thesis, University of Michigan	
Gartner, J. F.	1980	Northern Ontario Engineering Geology Terrain Study 59, Schreiber Area, NTS 42 D/NW, Thunder Bay District, Ontario. Accompanied by map 5092.	NOEGTS 59	1:100,000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Phillips, B. A. M.	1980	The Morphology and Processes of the Lake Superior North Shore.	GSC Paper 80-10	pp. 407-415
Phillips, B. A. M.	1982	Characteristics of Raised Cobble Ridges in the Terrace Bay Area of the North Shore of Lake Superior.	Canadian Geographer Vol. 26, Pt. 2	pp. 128-141
Surveys and Mapping Branch Department of Energy, Mines and Resources	1968	Topographic Map, Schreiber Sheet, Thunder Bay District, Ontario (42 D 14/E).		1:50,000
Zoltai, S. C.	1965	Thunder Bay Surficial Geology, NTS 42 D, E, L; 52 A, H, I, Ontario.	ODLF Map S2-65	1 inch to 8 miles
Zoltai, S. C.	1967	Glacial Features of the North Central Lake Superior Region, Ontario.	Canadian Journal of Earth Sciences, Vol. 4, No. 2	pp. 515-528

NOTES AND ADDENDA

GDIF FORM NO.10

87° 15'

48° 52' 30"

47

48

Little Bruin L

20

38

Big Ansell

McQuaig Cr

McQuaig Lake

Ellis Lake Cr

Big Bruin Lake

Ansell Cr

Duck Cr

Fog Cr

Hollinger L

Von L

7

Lamont L

23

4

28

28

13

13

Hays

PRISKE TOWNSHIP

STREY TOWNSHIP

Twain L

Big Duck Cr

Ayah L.

27

Aguasabon River

27

87° 00'

48° 52' 30"

Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 228

(Map **1** of **3**)

HAYS LAKE AREA

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

Von L.
7
PRISKE TOWNSHIP
STREY TOWNSHIP
Ayah L.
Twain L.
Duck Cr
Big
Hays
Lake
Lomant L.
23
4
28
28
13
28
13
4
13
13
43
25
13
Cr
10
32
10
13
13
32
33
43
Terrace Bay
River
Worthington
43
43
Worthington Bay
Terrace Bay
Taylor Id
Old Ned Id
Bell Id
Bay
Aquasabon
Blain Id
Rock Id
Douglas Id
Keith Rock
Lake
Les Petits Ecrits
48° 45' 00"
87° 15'

Moberley Bay

Jackfish Bay of Lake Superior

Terrace Bay

River

Victoria Bay

Aquasabon

Cape Victoria

Superior

48° 45' 00"

87° 00'

EXPLORATION DATA FILE AREAS

⊠ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

☐ x ④ Small area of exploration.

87°15'

48° 52' 30"

9

Little Bruin L.

McQuaig Lake

Ellis

17

30

Big

Ansell

McQuaig Cr.

42

Lake

42

Cr.

River

Big Bruin Lake

35

36

17

15

Aguasabon

Duck

46

Ansell

Fog

8

22

3

Cr.

PRISKE TOWNSHIP

STREY TOWNSHIP

19

11

39

Von L.

CUT LINE

2

37

Ayah L.

Twain L.

Lamont L.

5, 37

Hays

37

Big Duck Cr.

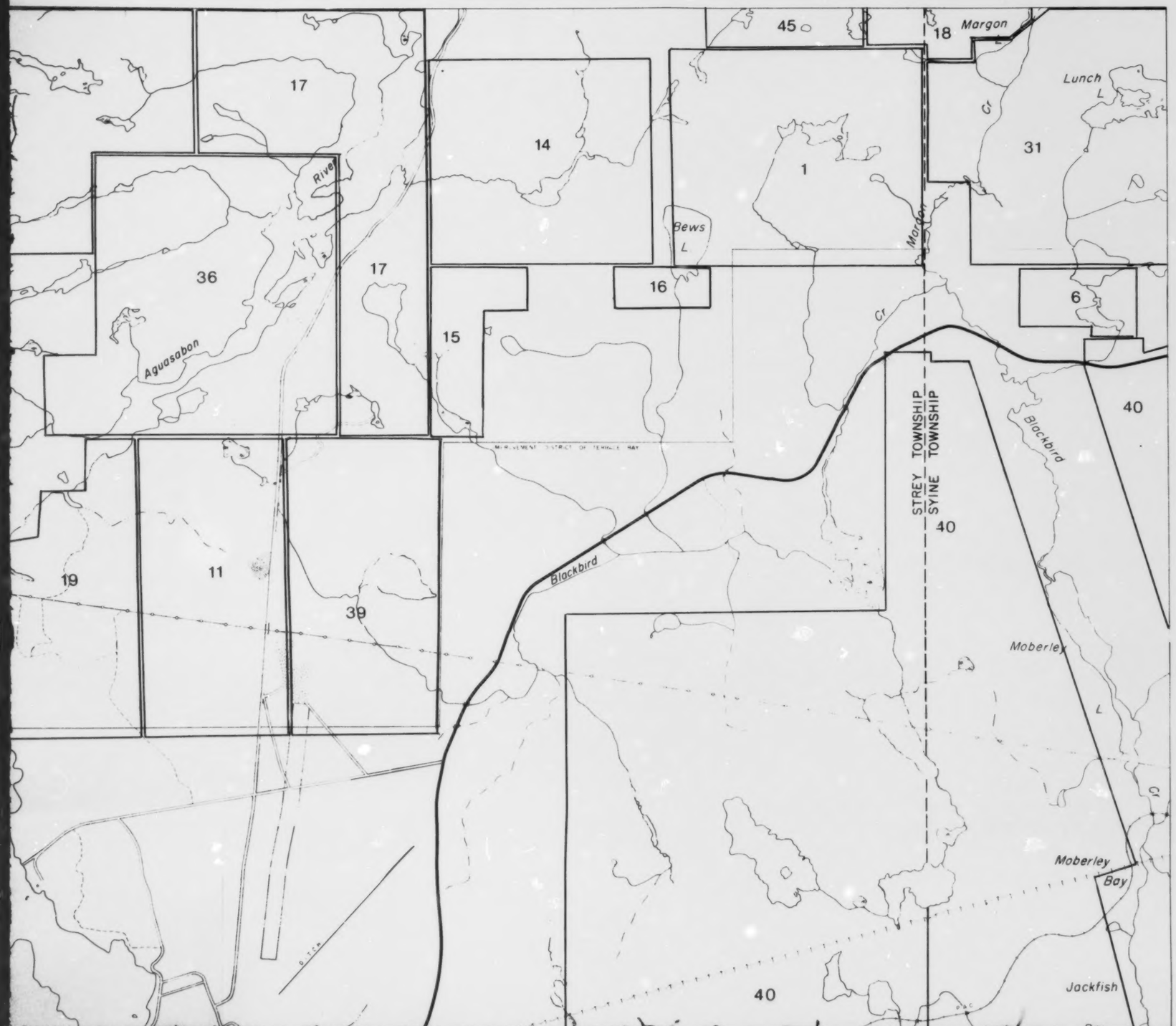
26

12

26

87° 00′

48° 52′ 30″



Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 228

(Map **2** of **3**)

HAYS LAKE AREA

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

Von L.
Lamont L.
37
5, 37
Hays
37
Lake
26→
12→
26
26
←34
29→
←44
←24
34, 29, 44→
34
←21
12
21→
44
12→
44
Worthington
Worthington Bay
OUTLINE IMPROVEMENT DISTRICT OF TERRACE BAY
Les Petits Ecrits
48° 45' 00"
87° 15'
PRISKE STREY
2
Twain L.
Ayah L.
Big Duck Cr.
D
Terrace Bay
River
Terrace Bay
Old Ned Id.
Taylor Id.
Bell Id.
Bay
Aguasabon
Blain Id.
Rock Id.
Douglas Id.
Keith Rock
Lake
Su

Terrace Bay

River

Aquasabon

40

Victoria Bay

Moberley Bay

Jackfish Bay of Lake Superior

Cape Victoria

Superior

48° 45′ 00″

87° 00′

EXPLORATION DATA FILE AREAS

☒ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

☐ x ④ Small area of exploration.

87°15'

48° 52' 30"

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ ◆³ — Geochemical sample site, with reference number
- ☒ ◆³ — Area of geochemical sampling, with reference number
- ☐ ✳² — Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☒ AM — Airborne Magnetometer Anomaly
- ☐ — Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- ☒ — Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- ☐ — Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- ☐ R — Resistivity Anomaly

Little Bruin L.
Big Bruin Lake
McQuaig Lake
McQuaig Cr.
Ansell
Duck
Fog
Ellis
Lake
Hollinger L.
Von L.
Lamont L.
Hays
Twain L.
Ayah L.
Big Duck Cr
CUT LINE
PRISKE TOWNSHIP
STREY TOWNSHIP
Au, Cu, Zn, Pb, Py
Au, Cu, Pb
Au
Au, Cu, Zn
Ag
HL
VLF
M
AEM

McQuaig Lake

Ellis Lake

McQuaig Cr.

Cr.

Cr.

Aguasabon River

Bews L.

Margon L.

Lunch L.

Margon Cr.

Blackbird Cr.

Blackbird

Moberley L.

Moberley Bay

Ayah L.

Twain L.

Big Duck Cr.

Hays

PRISKE TOWNSHIP

STREY TOWNSHIP

STREY TOWNSHIP

CUT LINE

IMPROVEMENT DISTRICT OF TERRACE BAY

AEM

AM

AVLF

VLF

HL

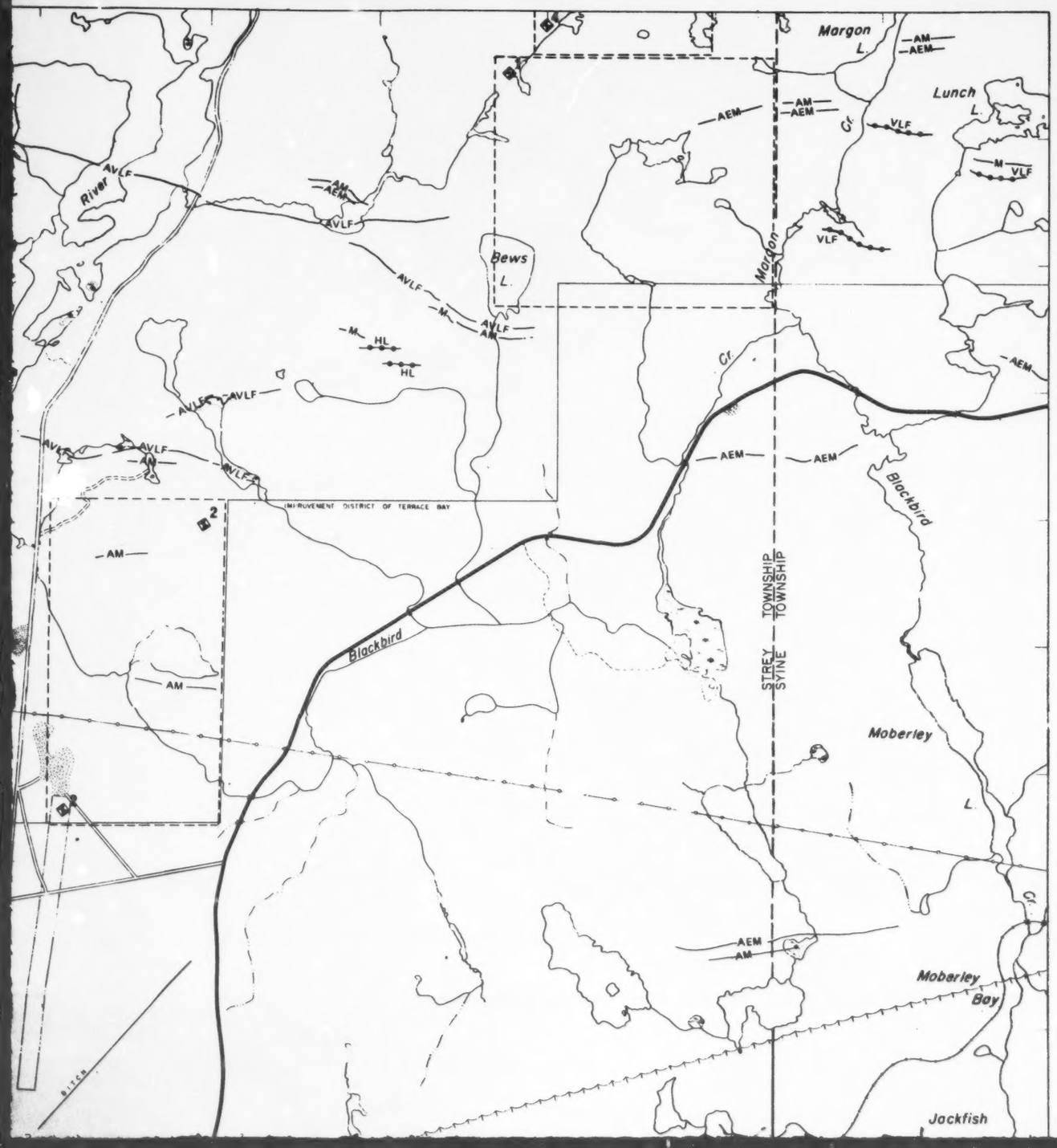
Au, Cu, Zn

Au

Ab

87° 00'

48° 52' 30"



Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 228

(Map **3** of **3**)

HAYS LAKE AREA

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter

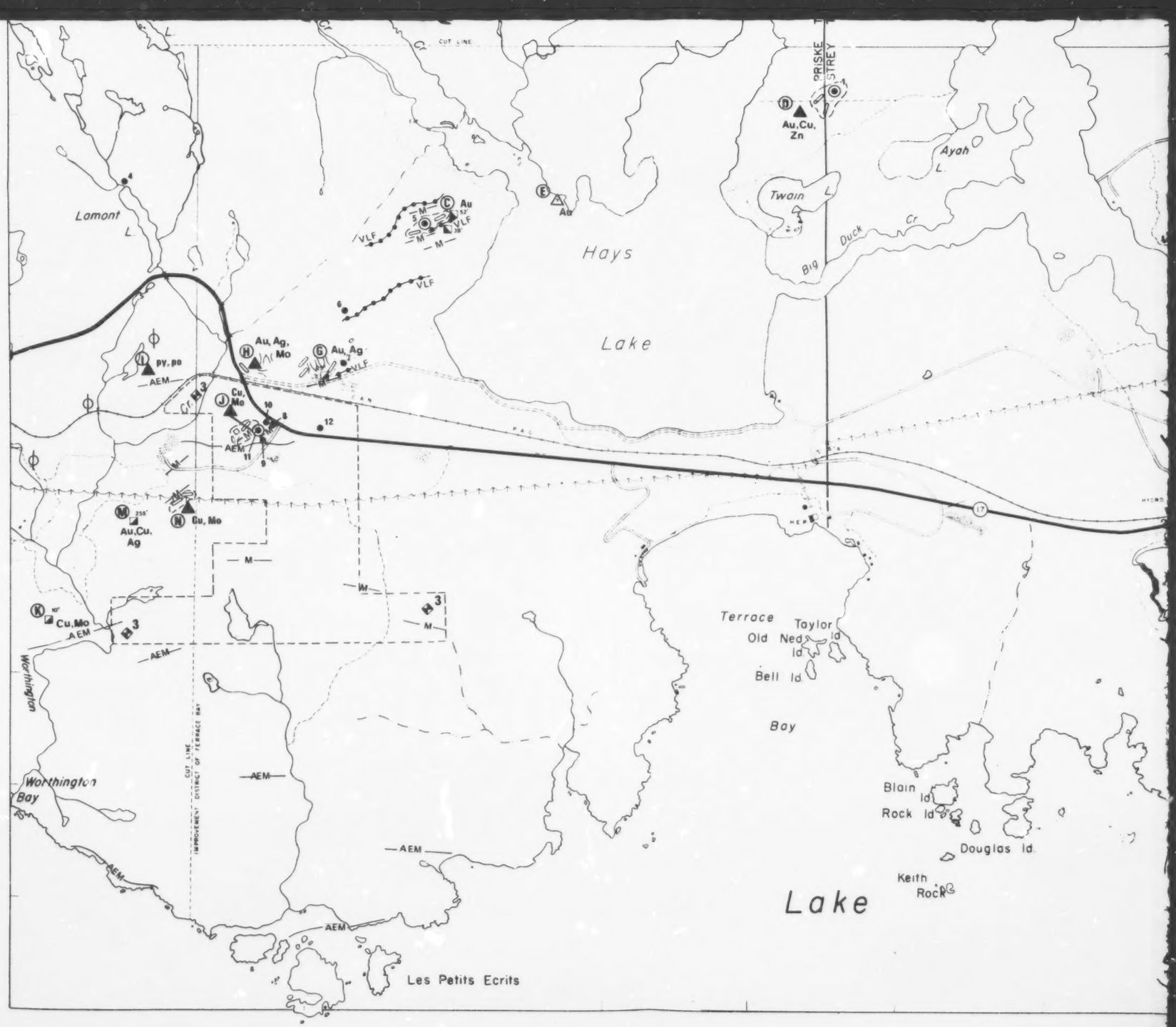
GDIF 228

- ☐ ▣ ARA — Airborne Radiometric Anomaly
- ☐ ▣ M — Ground Magnetometer Anomaly
- ☐ ▣ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly
- ☐ ▣ AEM — Airborne Electromagnetic Anomaly
- ☐ ▣ AVLF — Airborne VLF-EM Anomaly

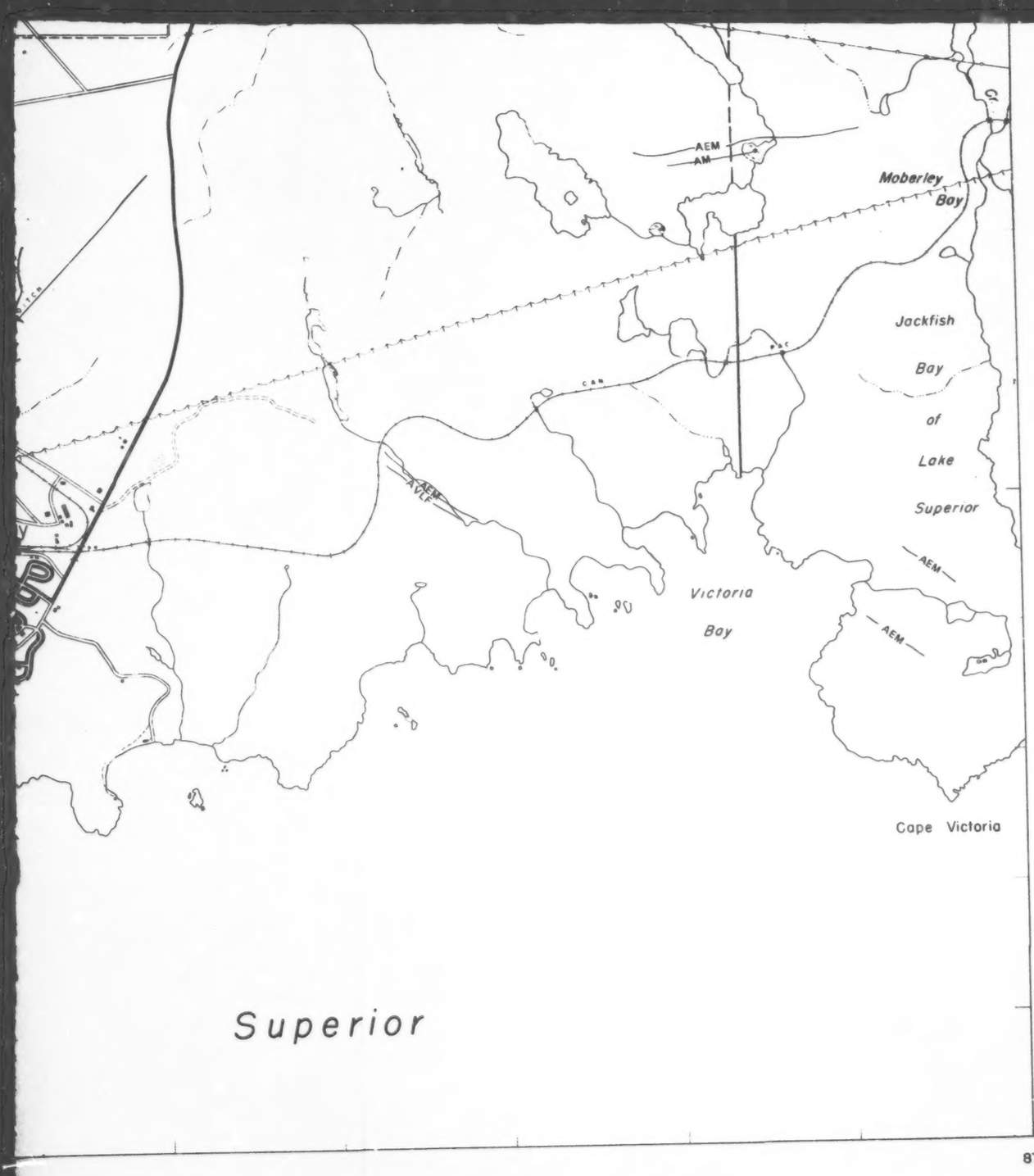
MISCELLANEOUS DATA

- ☐ ▣ Trenching, pit
- ☐ ▣ Adit
- ☐ Open pit
- ☐ ▣ Area of pits and trenches
- ☐ ▣ Rock quarry
- ☐ ▣ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



PRISKE TWP
STREY TWP
Au,Cu, Zn
Ayah L.
Twain L.
Big Duck Cr.
Hays Lake
Terrace Bay
River
Aquasabon
Moberley Bay
Jackfish Bay of Lake Superior
Victoria Bay
Cape Victoria
Terrace Bay
Old Ned Id.
Taylor Id.
Bell Id.
Bay
Blain Id.
Rock Id.
Douglas Id.
Keith Rock
Lake Superior
AEM
AM
DAM
CAN PAC
48° 45' 0
87° 00'



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ☒ cp A. — Mineral occurrence at surface, with reference letter
- ☒ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☒ Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized Float with reference letter

DRILL HOLES

- ☒ ●² — Location of single drill hole, with reference number
- ☒ ◉² — Location of closely spaced group of drill holes, with reference number
- ☒ (?)² — Drill hole, exact location uncertain, with reference number.
- ☐ — Property with underground drill holes in this general area, with reference number
- ☐ ○² — Property with drill holes which have not been plotted on map, with reference number
- ☐ ⊕² — Reverse Circulation Drill Hole; Churn drilling, with reference number